

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632030

Luminaire Tested: GWS-SA2B-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5582.7 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

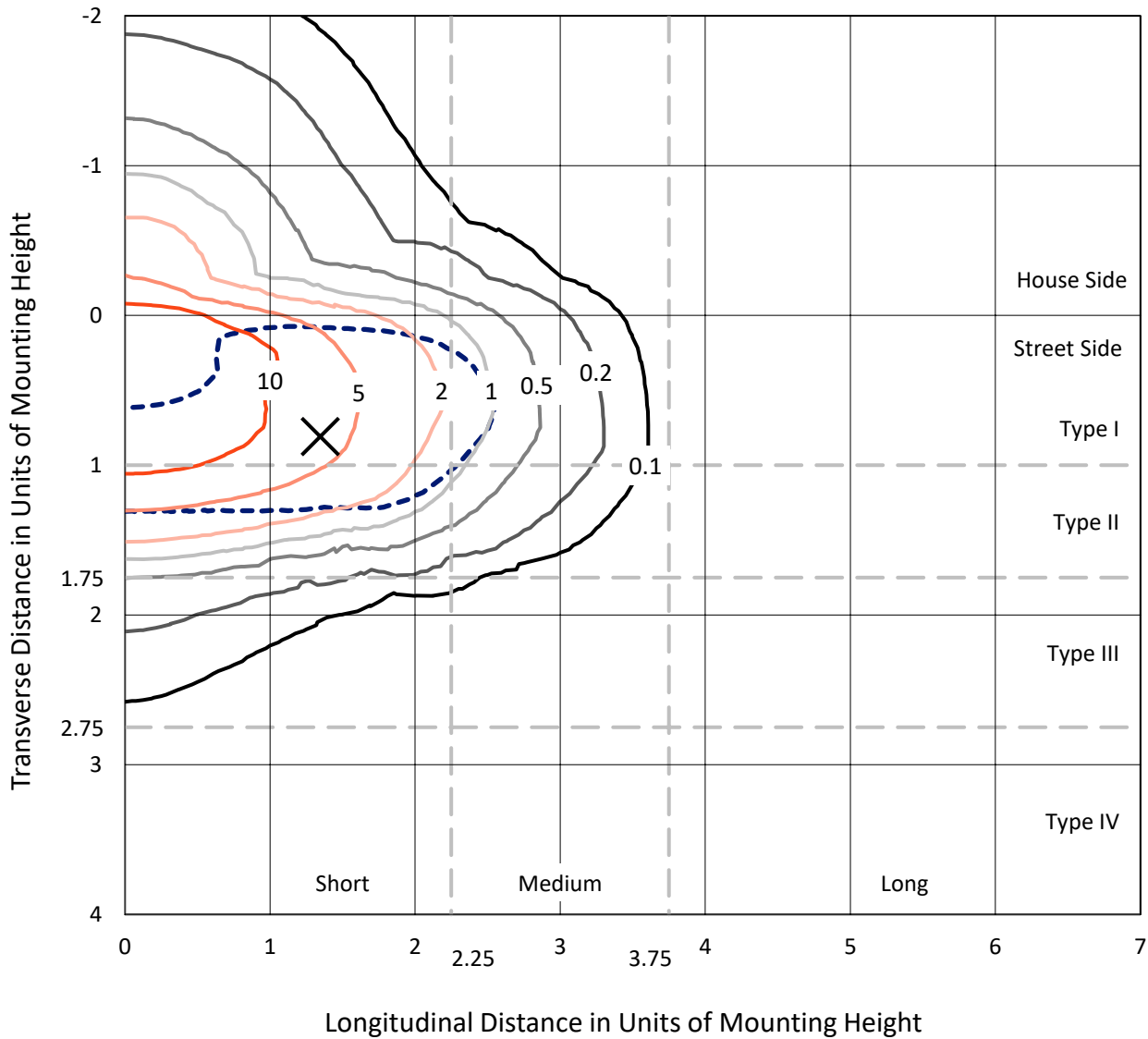
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

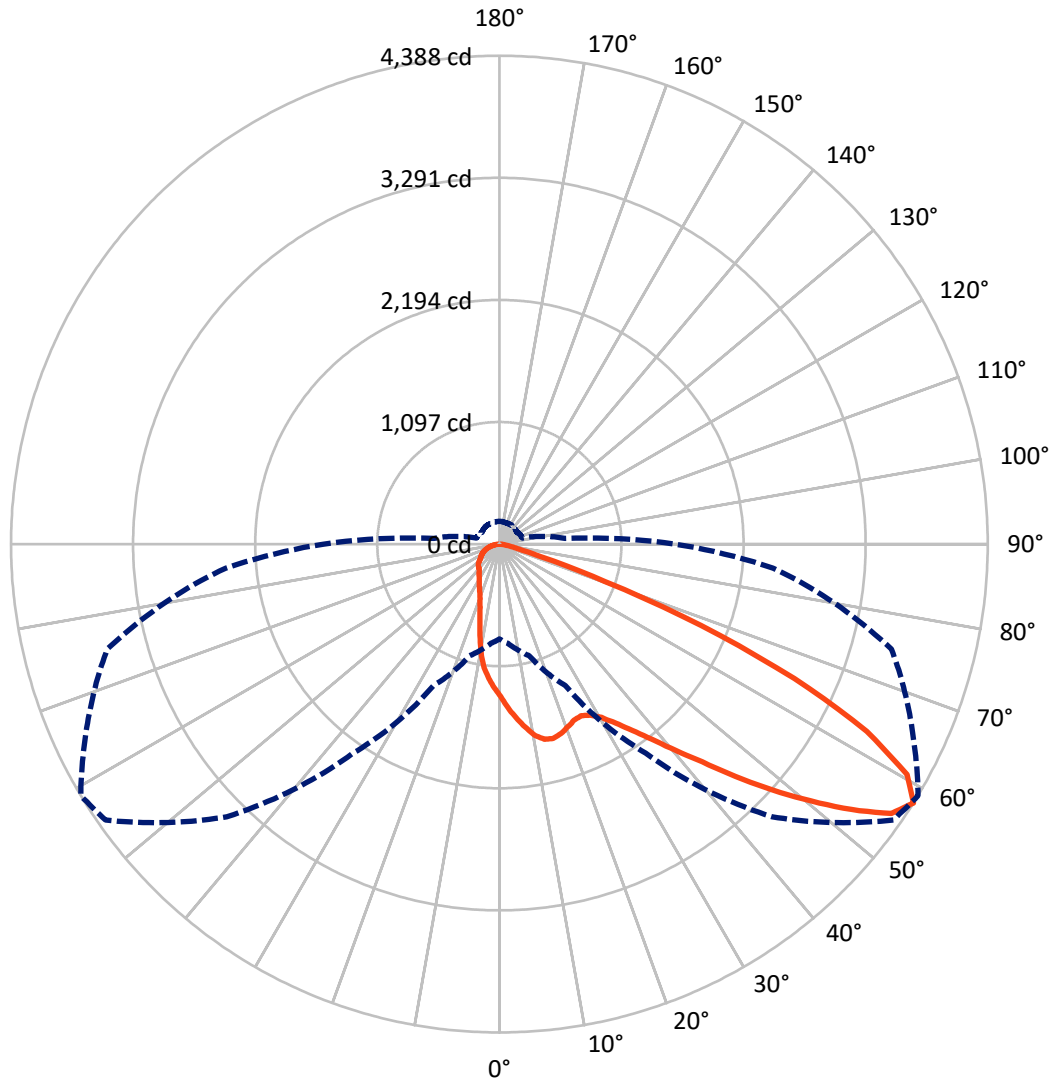
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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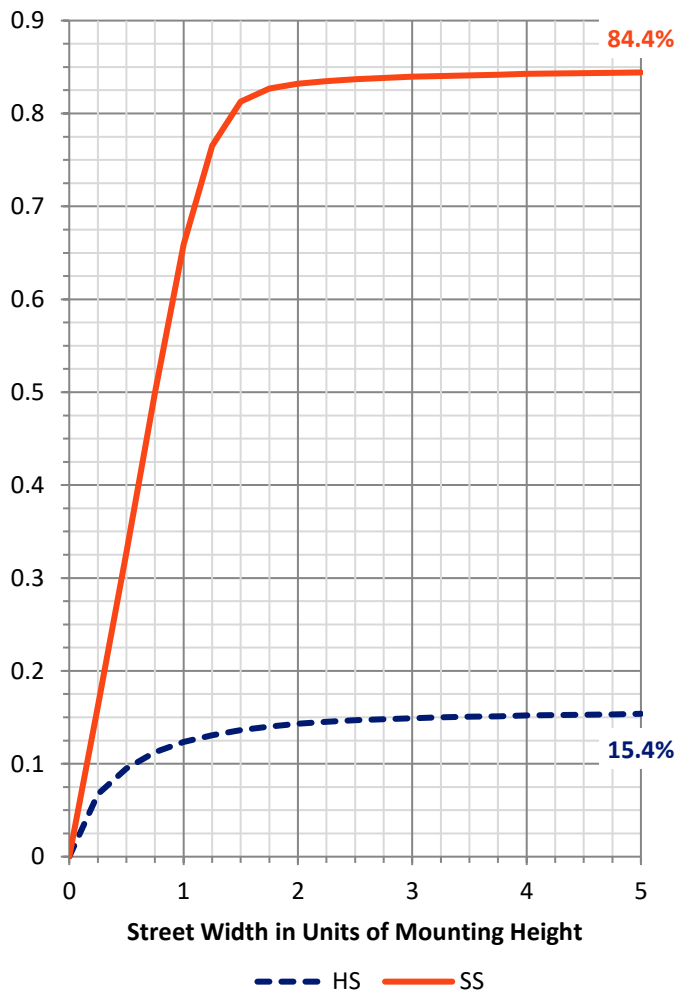
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.4	0.0	866.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4716.3	0.0	4716.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	5582.7	0.0	5582.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	2.3
10°-20°	322.4	5.8
20°-30°	522.7	9.4
30°-40°	840.8	15.1
40°-50°	1305.7	23.4
50°-60°	1406.4	25.2
60°-70°	816.2	14.6
70°-80°	213.1	3.8
80°-90°	28.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5582.7	100.0
0°-180°	5582.7	100.0

Coefficient of Utilization



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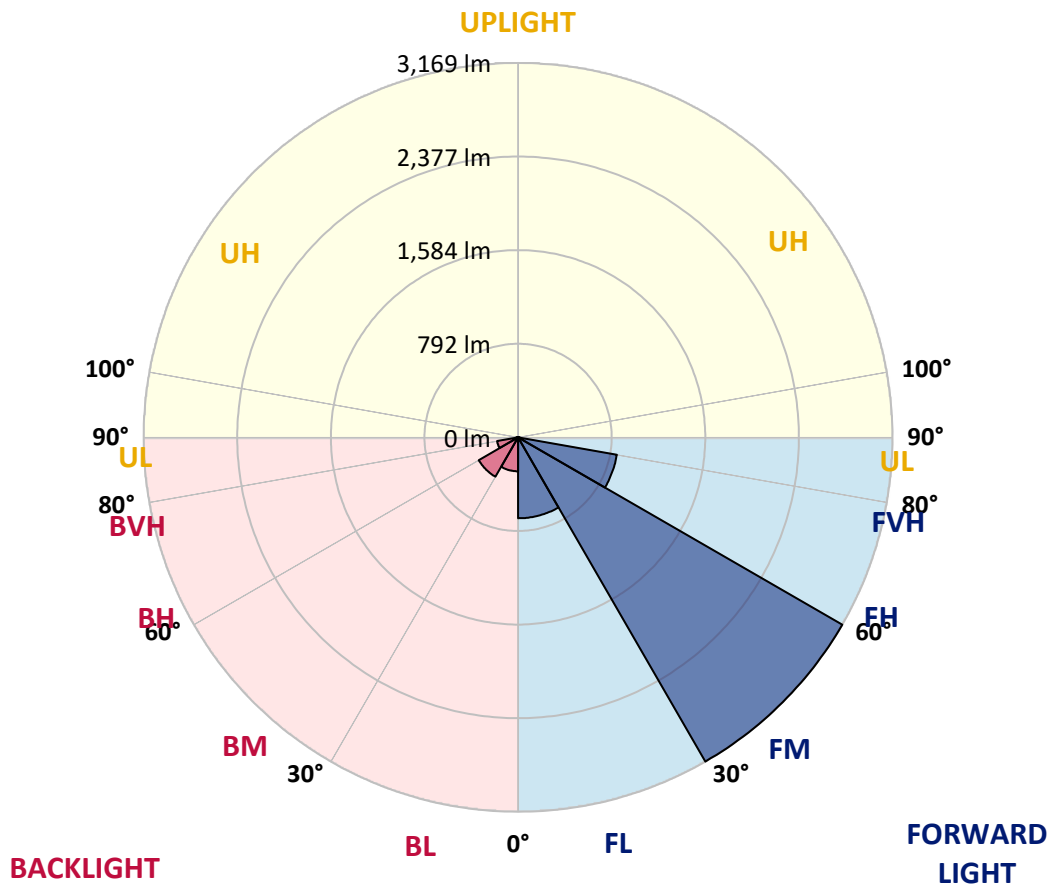
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.9	12.3			
FM (30°-60°)	3168.8	56.8			
FH (60°-80°)	849.1	15.2			G1/1800
FVH (80°-90°)	13.4	0.2			G1/100
BL (0°-30°)	287.4	5.1	B1/500		
BM (30°-60°)	384.1	6.9	B1/1000		
BH (60°-80°)	180.2	3.2	B1/500		G1/500
BVH (80°-90°)	14.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4
2.5°	1554.4	1541.4	1550.4	1534.3	1527.6	1510.0	1487.2	1471.8	1448.3	1417.6	1390.9
5°	1708.8	1699.8	1701.8	1684.5	1669.1	1639.7	1592.9	1566.9	1526.9	1465.2	1407.8
7.5°	1704.1	1714.7	1720.6	1735.6	1739.9	1737.1	1695.1	1658.9	1614.9	1522.1	1435.7
10°	1527.6	1547.7	1565.8	1616.9	1679.0	1757.6	1767.4	1745.8	1701.4	1594.9	1469.1
12.5°	1335.5	1350.8	1366.9	1428.2	1523.3	1680.5	1787.0	1800.4	1782.7	1666.8	1506.8
15°	1241.1	1248.2	1263.5	1304.0	1379.9	1554.4	1752.8	1811.4	1843.2	1743.0	1549.3
17.5°	1237.2	1240.4	1247.8	1269.4	1322.1	1456.9	1691.1	1789.4	1890.8	1823.6	1598.8
20°	1318.6	1310.3	1305.6	1305.2	1331.1	1424.3	1631.4	1754.0	1913.2	1906.1	1651.8
22.5°	1431.4	1434.1	1423.9	1398.7	1395.6	1447.5	1601.5	1718.3	1919.9	1979.2	1701.0
25°	1591.3	1605.1	1574.8	1526.9	1503.3	1514.7	1620.0	1707.3	1919.1	2040.1	1731.6
27.5°	1778.0	1788.6	1758.0	1695.1	1646.3	1618.8	1675.0	1739.9	1925.8	2092.8	1750.1
30°	1990.6	1994.2	1952.1	1886.1	1814.9	1756.0	1766.6	1807.1	1960.0	2162.0	1771.7
32.5°	2250.4	2265.3	2201.7	2097.1	1997.7	1922.2	1889.6	1915.6	2033.8	2243.7	1805.1
35°	2580.1	2585.2	2504.3	2354.5	2213.9	2109.3	2040.9	2054.7	2146.3	2358.1	1855.4
37.5°	2891.0	2896.1	2810.1	2670.9	2469.7	2326.6	2227.6	2221.3	2290.1	2519.6	1937.6
40°	3088.3	3102.8	3064.3	2977.1	2784.9	2591.9	2457.5	2435.9	2478.7	2717.3	2051.9
42.5°	3194.4	3200.7	3199.9	3211.3	3097.0	2905.2	2716.9	2673.7	2702.4	2930.7	2167.5
45°	3195.2	3210.9	3253.0	3362.6	3367.7	3248.3	3044.7	2977.1	2950.8	3145.7	2288.1
47.5°	3052.1	3069.0	3184.6	3400.4	3559.5	3586.6	3437.3	3301.7	3190.9	3330.8	2387.2
50°	2619.0	2661.5	2881.6	3263.2	3597.3	3857.8	3811.8	3627.9	3404.3	3473.9	2449.3
52.5°	2242.9	2241.4	2377.0	2875.7	3439.7	3977.3	4174.2	3963.6	3615.3	3564.6	2465.0
55°	1642.4	1651.4	1790.2	2199.3	3019.1	3861.8	4373.5	4272.5	3857.4	3613.0	2458.7
57.5°	851.7	896.5	1038.7	1403.5	2294.0	3464.0	4320.4	4387.6	4103.5	3647.2	2467.0
60°	430.4	421.7	472.8	670.1	1329.2	2705.5	3993.4	4207.6	4147.9	3673.9	2472.1
62.5°	287.3	284.9	270.8	310.5	543.1	1602.3	3404.3	3704.6	3839.4	3611.0	2406.8
65°	248.8	244.1	218.1	216.6	263.7	664.6	2495.2	2912.2	3173.2	3331.6	2250.8
67.5°	224.0	216.9	190.6	177.6	189.4	292.0	1406.2	1953.3	2343.2	2817.5	1908.9
70°	200.0	196.5	170.2	151.3	150.1	178.0	518.0	1008.1	1433.7	1922.2	1395.6
72.5°	179.2	172.9	150.5	132.4	123.4	126.2	224.8	388.3	742.0	1199.1	834.8
75°	155.2	150.5	130.9	112.8	101.8	92.4	137.2	179.6	338.4	569.9	394.2
77.5°	119.9	116.7	103.4	89.6	83.3	68.8	83.3	113.2	156.4	240.1	205.2
80°	69.6	71.5	77.0	70.0	61.3	49.1	54.2	65.2	93.9	130.1	116.3
82.5°	35.0	37.3	49.9	40.5	36.6	28.7	32.2	38.5	49.1	71.9	45.6
85°	2.8	2.8	9.0	10.2	12.6	10.2	13.0	15.7	22.4	28.7	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	3.5	6.7	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4	1370.4
2.5°	1372.8	1352.8	1328.8	1309.1	1278.9	1262.8	1242.3	1217.2	1206.9	1202.2	1199.5
5°	1375.6	1340.2	1289.1	1241.9	1189.7	1148.4	1102.4	1054.5	1026.9	1020.3	1015.5
7.5°	1385.8	1336.2	1254.9	1177.1	1080.0	990.0	902.4	815.5	771.1	754.2	752.6
10°	1399.9	1334.7	1220.3	1091.0	927.1	784.8	682.3	614.3	585.6	576.2	573.0
12.5°	1417.6	1333.5	1174.7	971.5	750.7	616.2	557.7	546.7	550.6	549.8	549.8
15°	1440.0	1335.1	1119.7	836.3	607.2	534.9	536.1	549.0	561.2	563.2	563.2
17.5°	1464.4	1333.5	1039.9	700.7	521.1	515.6	533.7	551.8	562.8	564.4	564.4
20°	1490.7	1326.0	939.3	573.0	483.4	503.5	523.1	537.3	543.9	545.5	545.5
22.5°	1506.4	1304.8	830.0	485.0	459.4	484.2	497.2	511.7	512.5	499.9	499.5
25°	1504.1	1265.1	705.5	428.4	433.9	455.5	472.0	461.8	449.2	442.1	441.0
27.5°	1489.1	1205.4	578.5	385.5	403.6	428.0	422.9	414.2	411.1	403.2	402.4
30°	1470.3	1131.9	464.5	352.1	372.2	394.6	386.7	385.9	382.8	374.1	374.1
32.5°	1452.2	1056.0	378.5	327.4	352.1	353.7	364.7	365.5	363.9	349.0	347.4
35°	1447.1	980.2	320.3	307.7	332.5	331.7	347.4	347.0	319.9	299.1	298.7
37.5°	1462.4	903.1	285.7	291.6	305.4	315.6	328.2	305.4	296.3	283.8	283.0
40°	1495.0	832.0	268.0	282.2	288.1	303.0	283.4	284.9	282.6	273.1	272.0
42.5°	1538.3	771.5	258.2	279.0	278.3	282.2	260.6	266.9	270.4	263.3	262.1
45°	1579.9	718.8	253.1	267.2	271.2	248.4	244.1	250.0	255.5	252.7	251.5
47.5°	1610.6	673.2	250.4	251.1	262.1	237.0	229.9	232.7	239.3	240.5	240.1
50°	1620.0	634.3	247.2	237.8	235.4	225.6	220.1	219.3	227.2	232.7	233.5
52.5°	1601.9	599.7	239.0	226.0	214.6	216.2	214.2	210.3	218.1	225.6	226.4
55°	1575.2	580.1	226.0	214.6	201.2	207.5	208.3	204.8	209.9	215.0	215.0
57.5°	1577.2	591.5	213.4	204.0	189.4	197.7	202.0	200.4	200.4	204.4	204.8
60°	1590.1	608.0	205.2	190.6	177.6	186.3	196.1	194.5	191.0	196.1	196.1
62.5°	1552.8	586.0	199.7	177.6	165.1	175.3	187.1	186.3	182.4	190.6	191.4
65°	1442.8	527.0	193.4	161.5	152.5	164.3	174.5	177.2	173.7	184.7	186.7
67.5°	1209.3	443.3	181.2	146.2	139.9	150.9	160.7	164.7	161.9	174.9	176.5
70°	901.6	358.8	161.9	129.3	124.6	134.4	143.5	145.0	145.4	160.7	162.3
72.5°	575.0	279.0	136.4	110.4	106.9	114.4	121.0	127.3	130.1	144.6	144.2
75°	320.7	207.5	109.7	93.5	87.2	93.1	101.0	108.5	116.3	137.6	139.9
77.5°	184.7	145.8	86.9	75.1	67.6	73.9	80.6	91.2	114.8	133.2	130.9
80°	104.1	94.7	65.6	55.0	50.3	55.0	60.1	80.2	90.4	98.3	99.4
82.5°	48.7	53.1	44.8	33.8	33.8	36.9	41.7	62.1	68.4	55.8	48.7
85°	17.7	24.0	22.0	17.3	15.3	14.9	25.9	35.4	22.0	19.7	16.9
87.5°	4.7	6.7	6.3	4.3	2.4	2.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)